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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,035	08/18/2003	David M. Geibel	ABPT-0201/B990661 3228 EXAMINER	
23377	7590 11/23/2004			
	CK WASHBURN LL	MAI, ANH T		
	TY PLACE, 46TH FLC ET STREET	OOR	ART UNIT	PAPER NUMBER
PHILADELI	HIA, PA 19103		2832	
			DATE MAILED: 11/23/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No. Applicant(s)						
	10/643,035	GEIBEL, DAVID M.	GEIBEL, DAVID M.			
Office Action Summary	Examiner	Art Unit				
	Anh T. Mai	2832				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address	_			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repl ply within the statutory minimum of thirty (i I will apply and will expire SIX (6) MONTH te, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 15 (October 2004.	•				
	s action is non-final.					
3) Since this application is in condition for allowa		s, prosecution as to the merits is				
closed in accordance with the practice under		·				
Disposition of Claims						
4)⊠ Claim(s) <u>9 and 12-30</u> is/are pending in the ap	nlication					
4a) Of the above claim(s) 9,12-20 is/are withd	* /	•				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21-30</u> is/are rejected.		,				
✓ 7) Claim(s) is/are objected to.	·					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers	•					
9) The specification is objected to by the Examin	or					
)) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	***	• • •				
11) The oath or declaration is objected to by the E	, , , , , , , , , , , , , , , , , , , ,	, , ,				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 	its have been received.					
3. Copies of the certified copies of the price	• •					
application from the International Burea	•					
* See the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	ceived.				
	·	•				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Sun	nmary (PTO-413)				
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N	/lail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	5) Notice of Info 6) Other:	rmal Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Claims 9, 12-20 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on October 15, 2004.

In the instant application, claims 21-30 have been examined.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 21-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

What does applicant intend by "cured and filler-less epoxy compound"? Does applicant imply "cured filler-less structure" or "cure epoxy structure"? What is "sight bowl"? Is it the bowl inside the transformer bushing? Term "ultraviolet light absorbers" is unclear. Applicant is required to specify.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 21-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowman et al. [4594475] in view of Eisberg et al. [6074595].

Bowman discloses a transformer tank, bushing 5 coupled to transformer and bushing bowl 15 [see fig 1].

An electrical insulating <u>bushing</u> is generally indicated at 5 and is employed on a <u>tank</u> of an electrical apparatus, such as a <u>transformer</u>, circuit breaker, or the like, for connecting leads from the electrical apparatus contained within the <u>tank</u> to an exterior electrical circuit. The <u>bushing</u> 5 comprises an outer shell or tubular housing 7, a mounting annulus 9 having a flange 11, a lower shell or housing 13, and a <u>bushing bowl</u> 15. The tubular housing 7 is composed of a dielectric material, such as an epoxy resin or porcelain, and is mounted on the metallic annulus 9 which extends through an opening 17 in a <u>tank</u> wall 19 and where it is secured in place in a conventional manner such as by a plurality of spaced bolts extending through the mounting flange 11. The lower shell or housing 13 is likewise composed of a dielectric material, such as an epoxy resin or porcelain, and is secured in a fluid-tight manner to the lower end of the annulus 9.

Bowman discloses the invention as claimed as cited above except for the material of the bowl being transparent and comprising a cured and filler-less epoxy compound. Eisberg discloses a rigid, three-dimensional, transparent structure comprising a cured filler-less epoxy compound having a cylindrical structure [abstract; lns 1-22 and col 8, lns 44-46].

With respect to claim 23, Eisberg discloses a rigid, three dimensional, transparent structure wherein the cured filler-less epoxy compound being cycloaliphatic epoxy resin [col 5, lns 21-24

With respect to claims 24, 28 Eisberg discloses a rigid, three dimensional, transparent structure wherein the cured filler-less epoxy compound is anhydride cured [col 5, lns 21-24].

(21) The particularly preferred second resin system includes a well known cycloaliphatic epoxy resin and an acid anhydride curing agent which system is curable at elevated temperatures in the range of about 70.degree. *C.* to about 175.degree. *C.*

With respect to claim 25, Eisberg discloses a rigid, three dimensional, transparent structure wherein the cured filler-less epoxy compound containing ultraviolet light absorbers [col 5, lns 39-50]

Photoinitiators suitable for ultraviolent (UV) radiation-curing of acrylic, methacrylic and vinyl monomers include free radical-generating UV initiators, such as benzopheneone, diethoxy-acetophenone and the like. Infrared initiators include cumene hydroperoxide, benzoyl peroxide, asobisisobutyronitrile, and also azo and peroxide compounds. When the radiation-curable first resin system includes an epoxy resin, the photoinitiator may be a UV initiator which liberates a Lewis acid and/or Bronsted acid, such as iodonium salts, sulfonium salts, arsonium salts and diazonium salts.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use material as taught by Eisberg to the bowl of Bowman. The motivation would have been to provide the pressure reinforced material for the bowl. Therefore, it would have been obvious to combine Eisberg with Bowman.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Scott [4543730].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ANH MAI PRIMARY EXAMINER